

FIG. 1

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STATION	equatizer pre-train value	Timing recovery pre-train value	AGC pre-train value	echo canceler pre-train value
1234	7	90,215	5 dB	2.2
4321	-	-	4 dB	-
		⋮		

202 N 204 206 208 210

291 293

FIG. 2

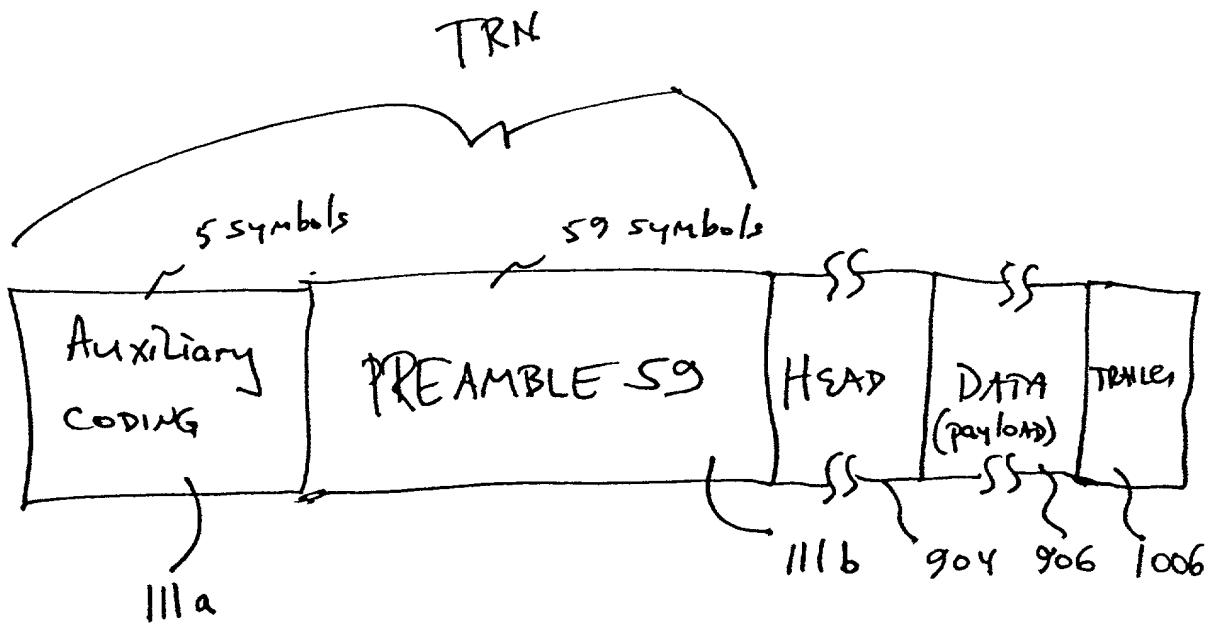


FIG. 3

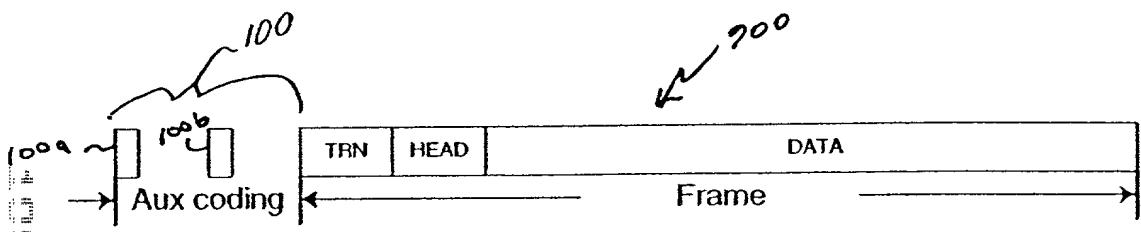


FIG. 4

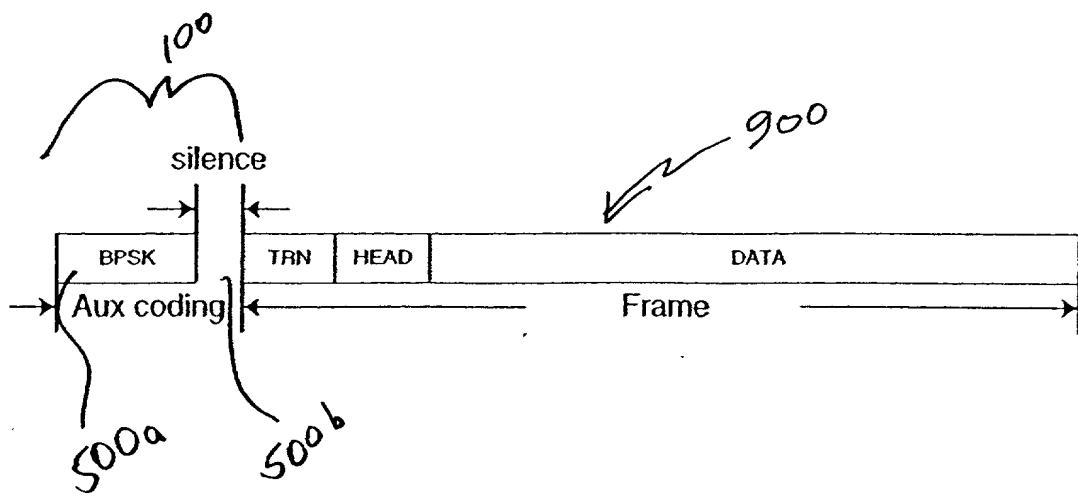


FIG. 5

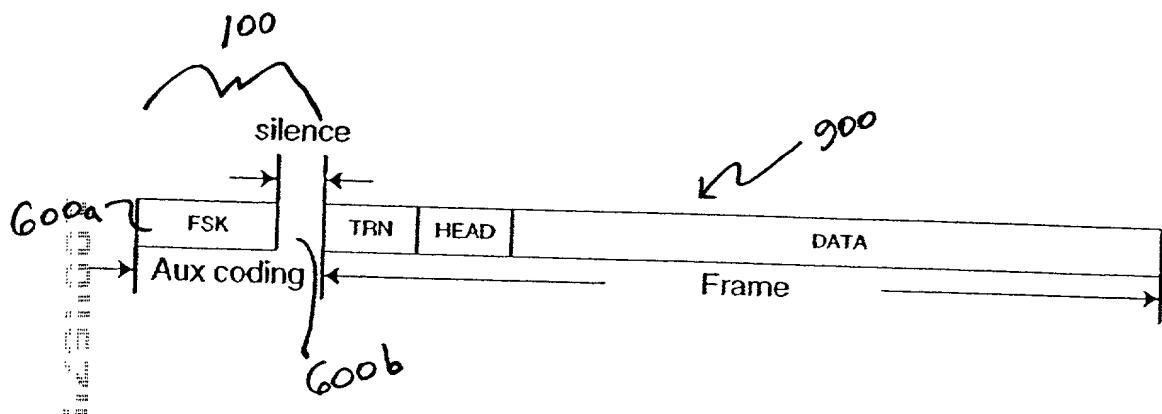
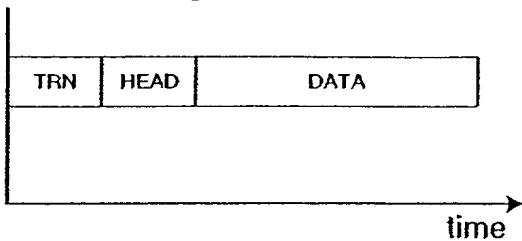
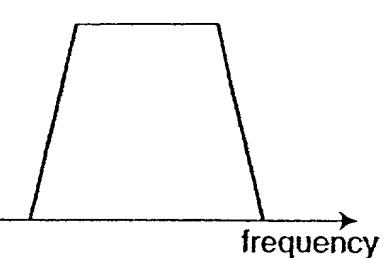


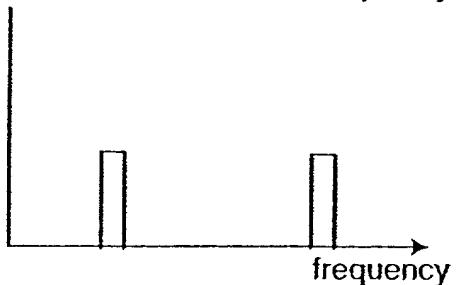
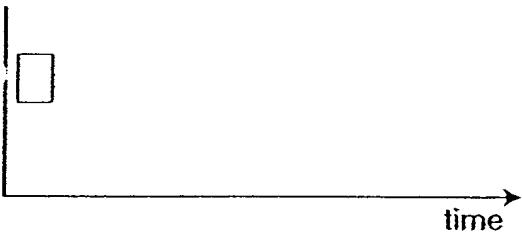
FIG.6

Time domain

normal frame signal:

**Frequency domain**

auxiliary coding signal:



mixed signal:

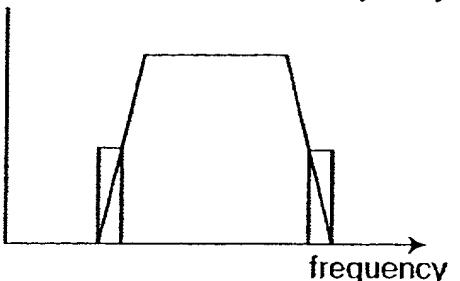
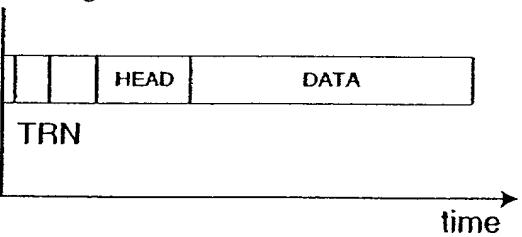
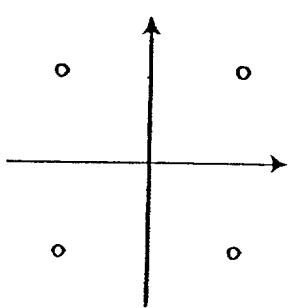


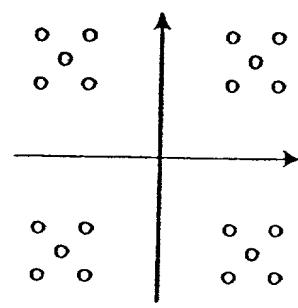
FIG. 7A

FIG. 7B

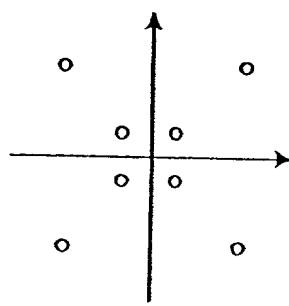
FIG. 7C



coding
example 1



coding
example 2

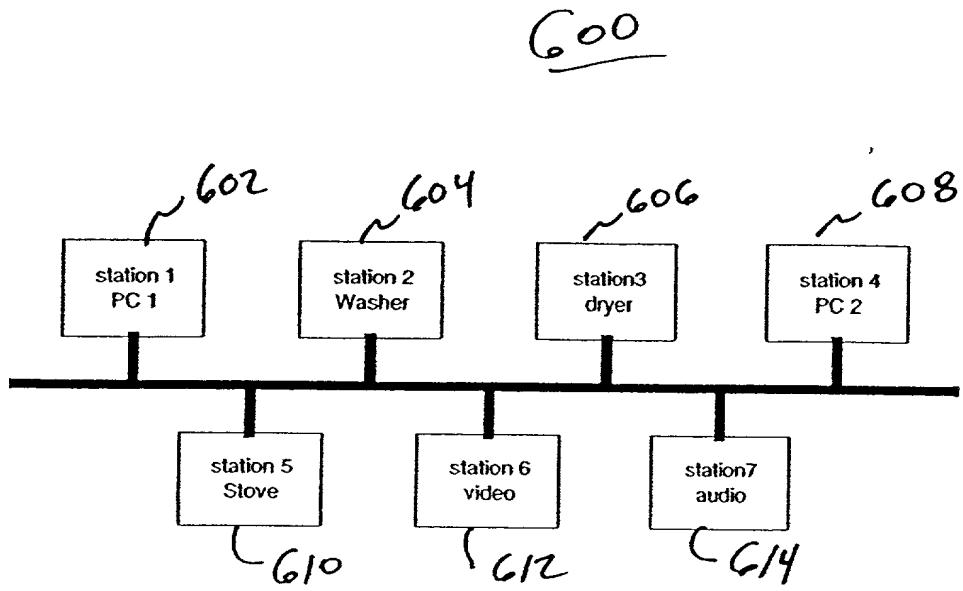


coding
example 3

FIG. 8A

FIG. 8B

FIG. 8C



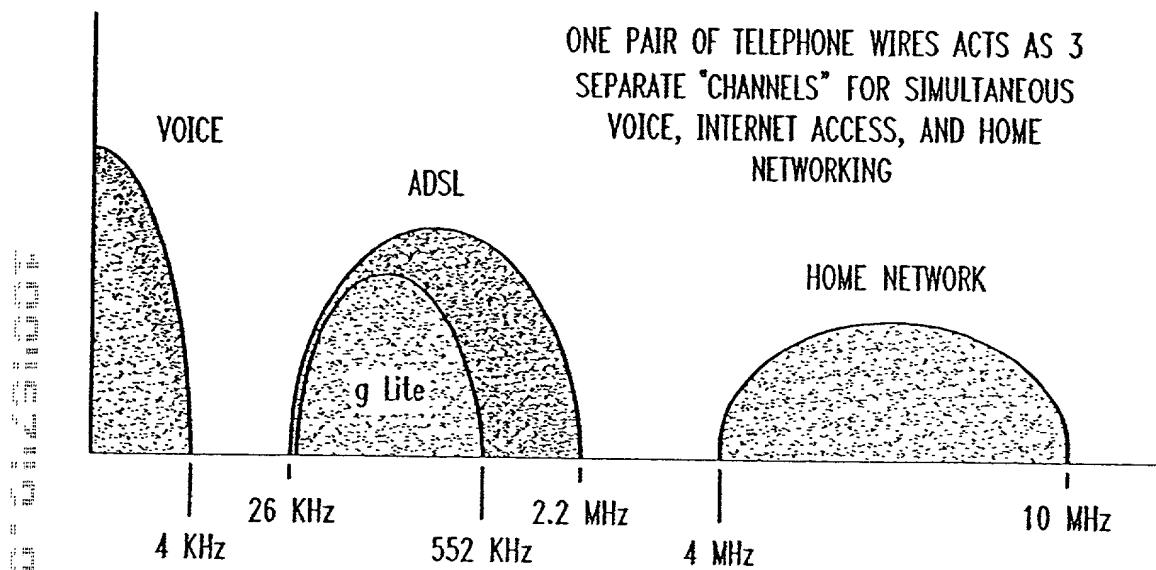
PRIOR ART

FIG. 9

FIG. 10

PRIOR ART

SPECTRAL ALLOCATION OF EXISTING SERVICES SHARING THE PHONELINE MEDIA



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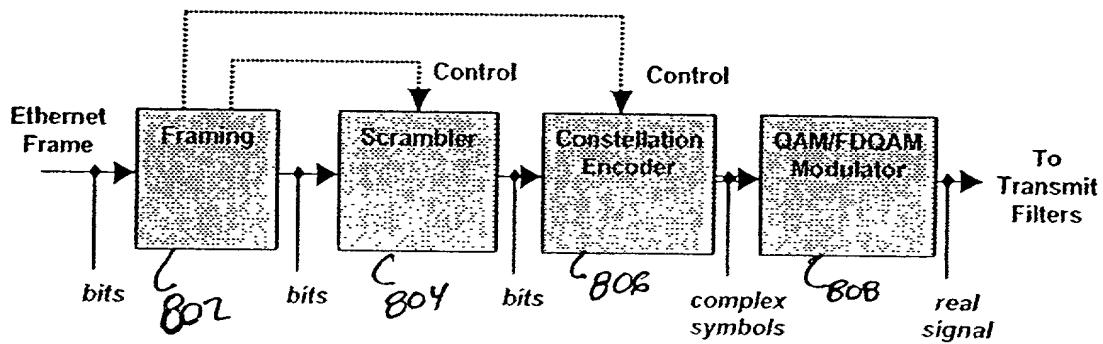
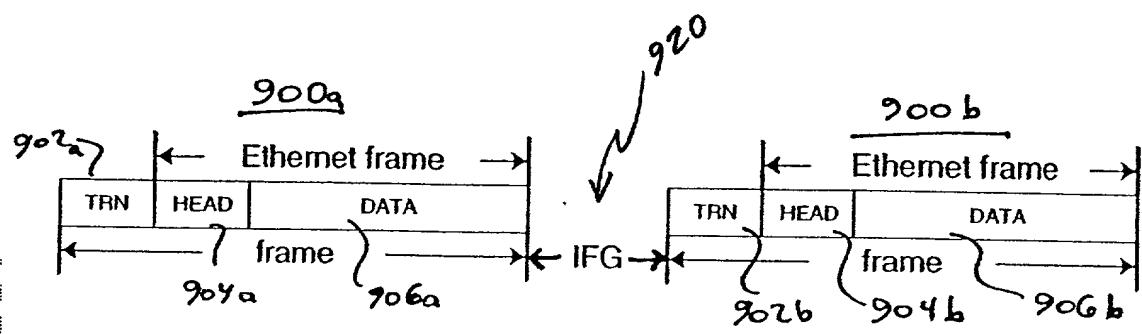


Fig. 11



PRIOR ART

FIG.12

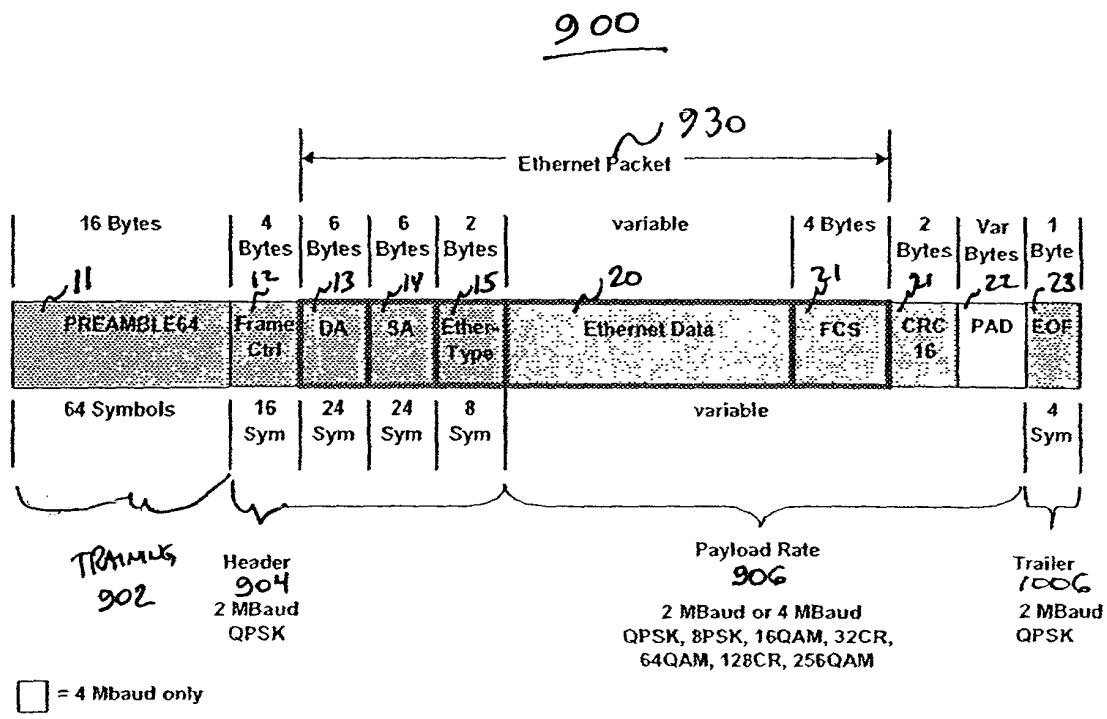


FIG. 13

Field	Bit Number	Bits	Description
FT	31:24	8	Frame Type. This field shall be set to zero by the transmitter. The receiver shall decode this field and discard the frame if it's anything other than zero.
RSVD	23	1	Reserved. This field shall be set to zero by the transmitter, and the receiver shall ignore it
PRI	22:20	3	Priority (0-7)
SI	19:16	4	Scrambler Initialization
PE	15:8	8	Payload Encoding
HCS	7:0	8	Header Check Sequence

Fig-14